Logarithms Review:

1. In your own words, state the 5 main logarithm rules.
2. Sketch any function that represents exponential growth. Describe a real world example that your graph could represent.
3. Sketch any function that represents exponential decay. Describe a real world example that your graph could represent.
4. Write the equation in logarithmic form.
5. Evaluate
6. Use and to give the value of
7. Explain how you would use common logs to approximate the value of to four decimal places.
8. Evaluate .
9. Evaluate .
10. Simplify -

**Indicate whether the next 5 statements are true or false.**

11**.** Only for a base of e, exists True False

12**.** True False

13**.** True False

14**.** True False

15**.** If True False